

Denis L J Lafontaine

List of Publications by Year in descending order

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80
papers

8,302
citations

57758

44
h-index

64796

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g-index

93
all docs

93
docs citations

93
times ranked

8687
citing authors

#	ARTICLE	IF	CITATIONS
1	Melanoma addiction to the long non-coding RNA SAMMSON. Nature, 2016, 531, 518-522.	27.8	488
2	A new system for naming ribosomal proteins. Current Opinion in Structural Biology, 2014, 24, 165-169.	5.7	481
3	The nucleolus as a multiphase liquid condensate. Nature Reviews Molecular Cell Biology, 2021, 22, 165-182.	37.0	480
4	Tuning the ribosome: The influence of rRNA modification on eukaryotic ribosome biogenesis and function. RNA Biology, 2017, 14, 1138-1152.	3.1	479
5	The Complexity of Human Ribosome Biogenesis Revealed by Systematic Nucleolar Screening of Pre-rRNA Processing Factors. Molecular Cell, 2013, 51, 539-551.	9.7	387
6	The human 18S rRNA m6A methyltransferase METTL5 is stabilized by TRMT112. Nucleic Acids Research, 2019, 47, 7719-7733.	14.5	312
7	The cell proliferation antigen Ki-67 organises heterochromatin. ELife, 2016, 5, e13722.	6.0	237
8	Yeast Kre33 and human NAT10 are conserved 18S rRNA cytosine acetyltransferases that modify tRNAs assisted by the adaptor Tan1/THUMP1. Nucleic Acids Research, 2015, 43, 2242-2258.	14.5	220
9	The nucleolus: structure/function relationship in RNA metabolism. Wiley Interdisciplinary Reviews RNA, 2010, 1, 415-431.	6.4	207
10	Noncoding RNAs in eukaryotic ribosome biogenesis and function. Nature Structural and Molecular Biology, 2015, 22, 11-19.	8.2	197
11	Birth of a nucleolus: the evolution of nucleolar compartments. Trends in Cell Biology, 2005, 15, 194-199.	7.9	193
12	The function and synthesis of ribosomes. Nature Reviews Molecular Cell Biology, 2001, 2, 514-520.	37.0	190
13	View From A Bridge™: A New Perspective on Eukaryotic rRNA Base Modification. Trends in Biochemical Sciences, 2015, 40, 560-575.	7.5	186
14	Mapping the cleavage sites on mammalian pre-rRNAs: Where do we stand?. Biochimie, 2012, 94, 1521-1532.	2.6	177
15	Birth of the snoRNPs: the evolution of the modification-guide snoRNAs. Trends in Biochemical Sciences, 1998, 23, 383-388.	7.5	171
16	Mammalian and yeast U3 snoRNPs are matured in specific and related nuclear compartments. EMBO Journal, 2002, 21, 2736-2745.	7.8	167
17	The DIM1 Gene Responsible for the Conserved m6Am62A Dimethylation in the 3'-Terminal Loop of 18 S rRNA is Essential in Yeast. Journal of Molecular Biology, 1994, 241, 492-497.	4.2	164
18	The reverse transcription signature of N1-methyladenosine in RNA-Seq is sequence dependent. Nucleic Acids Research, 2015, 43, gkv895.	14.5	163

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19	Involvement of human ribosomal proteins in nucleolar structure and p53-dependent nucleolar stress. <i>Nature Communications</i> , 2016, 7, 11390.	12.8	156
20	The Nucle(ol)ar Tif6p and Efl1p Are Required for a Late Cytoplasmic Step of Ribosome Synthesis. <i>Molecular Cell</i> , 2001, 8, 1363-1373.	9.7	150
21	Yeast 18S rRNA Dimethylase Dim1p: a Quality Control Mechanism in Ribosome Synthesis?. <i>Molecular and Cellular Biology</i> , 1998, 18, 2360-2370.	2.3	144
22	Nop58p is a common component of the box C+D snoRNPs that is required for snoRNA stability. <i>Rna</i> , 1999, 5, 455-467.	3.5	143
23	Pseudouridine Mapping in the <i>Saccharomyces cerevisiae</i> Spliceosomal U Small Nuclear RNAs (snRNAs) Reveals that Pseudouridine Synthase Pus1p Exhibits a Dual Substrate Specificity for U2 snRNA and tRNA. <i>Molecular and Cellular Biology</i> , 1999, 19, 2142-2154.	2.3	143
24	Synthesis and Assembly of the Box C+D Small Nucleolar RNPs. <i>Molecular and Cellular Biology</i> , 2000, 20, 2650-2659.	2.3	139
25	Precursors to the U3 Small Nucleolar RNA Lack Small Nucleolar RNP Proteins but Are Stabilized by La Binding. <i>Molecular and Cellular Biology</i> , 2000, 20, 5415-5424.	2.3	126
26	The human 18S rRNA base methyltransferases DIMT1L and WBSR22-TRMT112 but not rRNA modification are required for ribosome biogenesis. <i>Molecular Biology of the Cell</i> , 2015, 26, 2080-2095.	2.1	124
27	AlkAniline-Seq: Profiling of m ⁷ G and m ³ C RNA Modifications at Single Nucleotide Resolution. <i>Angewandte Chemie - International Edition</i> , 2018, 57, 16785-16790.	13.8	119
28	Ribosome biogenesis: An emerging druggable pathway for cancer therapeutics. <i>Biochemical Pharmacology</i> , 2019, 159, 74-81.	4.4	109
29	A "garbage can" for ribosomes: how eukaryotes degrade their ribosomes. <i>Trends in Biochemical Sciences</i> , 2010, 35, 267-277.	7.5	98
30	Specialized box C/D snoRNPs act as antisense guides to target RNA base acetylation. <i>PLoS Genetics</i> , 2017, 13, e1006804.	3.5	92
31	Identification of sites of 2'-O-methylation vulnerability in human ribosomal RNAs by systematic mapping. <i>Scientific Reports</i> , 2017, 7, 11490.	3.3	91
32	Dhr1p, a Putative DEAH-Box RNA Helicase, Is Associated with the Box C+D snoRNP U3. <i>Molecular and Cellular Biology</i> , 2000, 20, 7238-7246.	2.3	87
33	SAMMSON fosters cancer cell fitness by concertedly enhancing mitochondrial and cytosolic translation. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 1035-1046.	8.2	84
34	Structural and functional studies of Bud23-Trm112 reveal 18S rRNA N ⁷ -G1575 methylation occurs on late 40S precursor ribosomes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, E5518-26.	7.1	81
35	Genetic and Physical Interactions Involving the Yeast Nuclear Cap-Binding Complex. <i>Molecular and Cellular Biology</i> , 1999, 19, 6543-6553.	2.3	78
36	Trm112 Is Required for Bud23-Mediated Methylation of the 18S rRNA at Position G1575. <i>Molecular and Cellular Biology</i> , 2012, 32, 2254-2267.	2.3	73

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37	The nuclear poly(A) polymerase and Exosome cofactor Trf5 is recruited cotranscriptionally to nucleolar surveillance. <i>Rna</i> , 2009, 15, 406-419.	3.5	72
38	HydraPsiSeq: a method for systematic and quantitative mapping of pseudouridines in RNA. <i>Nucleic Acids Research</i> , 2020, 48, e110-e110.	14.5	72
39	The human box C/D snoRNAs U3 and U8 are required for pre-rRNA processing and tumorigenesis. <i>Oncotarget</i> , 2016, 7, 59519-59534.	1.8	69
40	The Evolutionarily Conserved Protein LAS1 Is Required for Pre-rRNA Processing at Both Ends of ITS2. <i>Molecular and Cellular Biology</i> , 2012, 32, 430-444.	2.3	67
41	Controlling the material properties and rRNA processing function of the nucleolus using light. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17330-17335.	7.1	62
42	Ribosome biogenesis factor Tsr3 is the aminocarboxypropyl transferase responsible for 18S rRNA hypermodification in yeast and humans. <i>Nucleic Acids Research</i> , 2016, 44, 4304-4316.	14.5	60
43	Cell size and fat content of dietary-restricted <i>Caenorhabditis elegans</i> are regulated by ATX-2, an mTOR repressor. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E4620-9.	7.1	56
44	The 18S ribosomal rRNA m ⁶ A methyltransferase Mettl5 is required for normal walking behavior in <i>Drosophila</i> . <i>EMBO Reports</i> , 2020, 21, e49443.	4.5	52
45	Is Ribosome Synthesis Controlled by Pol I Transcription?. <i>Cell Cycle</i> , 2007, 6, 11-15.	2.6	51
46	The Amaryllidaceae Alkaloid Haemanthamine Binds the Eukaryotic Ribosome to Repress Cancer Cell Growth. <i>Structure</i> , 2018, 26, 416-425.e4.	3.3	51
47	Trans-acting factors in yeast pre-rRNA and pre-snoRNA processing. <i>Biochemistry and Cell Biology</i> , 1995, 73, 803-812.	2.0	43
48	A multi-scale map of cell structure fusing protein images and interactions. <i>Nature</i> , 2021, 600, 536-542.	27.8	43
49	TOR regulates the subcellular distribution of DIM2, a KH domain protein required for cotranscriptional ribosome assembly and pre-40S ribosome export. <i>Rna</i> , 2008, 14, 2061-2073.	3.5	41
50	The Small Nucleolar RNA Cap Trimethyltransferase Is Required for Ribosome Synthesis and Intact Nucleolar Morphology. <i>Molecular and Cellular Biology</i> , 2004, 24, 7976-7986.	2.3	40
51	Dim2p, a KH-domain protein required for small ribosomal subunit synthesis. <i>Rna</i> , 2004, 10, 645-656.	3.5	40
52	A single N1-methyladenosine on the large ribosomal subunit rRNA impacts locally its structure and the translation of key metabolic enzymes. <i>Scientific Reports</i> , 2018, 8, 11904.	3.3	40
53	Carboxy-silane coated iron oxide nanoparticles: a convenient platform for cellular and small animal imaging. <i>Journal of Materials Chemistry B</i> , 2014, 2, 387-397.	5.8	36
54	Transcription-wide mapping of dihydrouridine reveals that mRNA dihydrouridylation is required for meiotic chromosome segregation. <i>Molecular Cell</i> , 2022, 82, 404-419.e9.	9.7	34

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55	Esf2p, a U3-Associated Factor Required for Small-Subunit Processome Assembly and Compaction. <i>Molecular and Cellular Biology</i> , 2005, 25, 5523-5534.	2.3	33
56	The ribosomal RNA m5C methyltransferase NSUN-1 modulates healthspan and oogenesis in <i>Caenorhabditis elegans</i> . <i>ELife</i> , 2020, 9, .	6.0	30
57	Use of the iNo score to discriminate normal from altered nucleolar morphology, with applications in basic cell biology and potential in human disease diagnostics. <i>Nature Protocols</i> , 2018, 13, 2387-2406.	12.0	29
58	Screening the Budding Yeast Genome Reveals Unique Factors Affecting K2 Toxin Susceptibility. <i>PLoS ONE</i> , 2012, 7, e50779.	2.5	25
59	Nucleolar structure across evolution: The transition between bi- and tricompartmentalized nucleoli lies within the class Reptilia. <i>Journal of Structural Biology</i> , 2011, 174, 352-359.	2.8	24
60	The nucleolus: When 2 became 3. <i>Nucleus</i> , 2011, 2, 289-293.	2.2	24
61	The role of OncoSnoRNAs and Ribosomal RNA 2â€™-O-methylation in Cancer. <i>RNA Biology</i> , 2021, 18, 61-74.	3.1	21
62	Probing small ribosomal subunit RNA helix 45 acetylation across eukaryotic evolution. <i>Nucleic Acids Research</i> , 2022, 50, 6284-6299.	14.5	21
63	A Functional Interface at the rDNA Connects rRNA Synthesis, Pre-rRNA Processing and Nucleolar Surveillance in Budding Yeast. <i>PLoS ONE</i> , 2011, 6, e24962.	2.5	20
64	Identification of Genes That Function in the Biogenesis and Localization of Small Nucleolar RNAs in <i>Saccharomyces cerevisiae</i> . <i>Molecular and Cellular Biology</i> , 2008, 28, 3686-3699.	2.3	19
65	Birth of Nucleolar Compartments: Phase Separation-Driven Ribosomal RNA Sorting and Processing. <i>Molecular Cell</i> , 2019, 76, 694-696.	9.7	18
66	Analysis of U8 snoRNA Variants in Zebrafish Reveals How Bi-allelic Variants Cause Leukoencephalopathy with Calcifications and Cysts. <i>American Journal of Human Genetics</i> , 2020, 106, 694-706.	6.2	17
67	Remodelin Is a Cryptic Assay Interference Chemotype That Does Not Inhibit NAT10-Dependent Cytidine Acetylation. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 887-892.	2.8	16
68	The DEAH-box RNA helicase Dhr1 contains a remarkable carboxyl terminal domain essential for small ribosomal subunit biogenesis. <i>Nucleic Acids Research</i> , 2019, 47, 7548-7563.	14.5	15
69	<i>HEATR3</i> variants impair nuclear import of uL18 (RPL5) and drive Diamond-Blackfan anemia. <i>Blood</i> , 2022, 139, 3111-3126.	1.4	15
70	Synergistic defects in pre-rRNA processing from mutations in the U3-specific protein Rrp9 and U3 snoRNA. <i>Nucleic Acids Research</i> , 2020, 48, 3848-3868.	14.5	14
71	DHX15-independent roles for TFIP11 in U6 snRNA modification, U4/U6.U5 tri-snRNP assembly and pre-mRNA splicing fidelity. <i>Nature Communications</i> , 2021, 12, 6648.	12.8	12
72	Cloning and Characterization of the KLDIM1 Gene from <i>Kluyveromyces lactis</i> Encoding the m26A Dimethylase of the 18S rRNA. <i>Yeast</i> , 1997, 13, 777-781.	1.7	11

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73	Nucleolar stress controls mutant Huntington toxicity and monitors Huntington's disease progression. <i>Cell Death and Disease</i> , 2021, 12, 1139.	6.3	10
74	Glutamine deficiency in solid tumor cells confers resistance to ribosomal RNA synthesis inhibitors. <i>Nature Communications</i> , 2022, 13, .	12.8	10
75	The catalytic activity of the translation termination factor methyltransferase Mtq2-Trm112 complex is required for large ribosomal subunit biogenesis. <i>Nucleic Acids Research</i> , 2020, 48, 12310-12325.	14.5	9
76	Nopp140-chaperoned 2'-O-methylation of small nuclear RNAs in Cajal bodies ensures splicing fidelity. <i>Genes and Development</i> , 2021, 35, 1123-1141.	5.9	9
77	Systematic mapping of rRNA 2'-O methylation during frog development and involvement of the methyltransferase Fibrillar in eye and craniofacial development in <i>Xenopus laevis</i> . <i>PLoS Genetics</i> , 2022, 18, e1010012.	3.5	9
78	Regulatory Aspects of rRNA Modification and Pre-rRNA Processing. , 2014, , 281-288.		8
79	Visualization of Chromatin in the Yeast Nucleus and Nucleolus Using Hyperosmotic Shock. <i>International Journal of Molecular Sciences</i> , 2021, 22, 1132.	4.1	4
80	AlkAniline-Seq: Profiling of m ⁷ G and m ³ C RNA Modifications at Single Nucleotide Resolution. <i>Angewandte Chemie</i> , 2018, 130, 17027-17032.	2.0	0